

Title (en)

EQUIPMENT AND METHOD FOR HARDENING TREATMENT OF METALLIC PARTS

Title (de)

VORRICHTUNG UND VERFAHREN ZUR HÄRTUNGSBEHANDLUNG VON METALLTEILEN

Title (fr)

ÉQUIPEMENT ET PROCÉDÉ POUR LE TRAITEMENT DE DURCISSEMENT DE PIÈCES MÉTALLIQUES

Publication

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Application

**EP 05781691 A 20050701**

Priority

EP 2005009171 W 20050701

Abstract (en)

[origin: WO2007003222A1] Equipment for metallic part hardening treatment comprising a support (10) and at least one working unit (50). The support is adapted to rotate the metallic part (20) during a hardening treatment. The working unit (50) comprises an inductor winding (51) to be positioned in front of a portion of said metallic part for heating said surface. According to the invention, the support (10) comprises one fixed spindle (11) to secure a first end (21) of the metallic part and one mobile tail stock (12) to contact a second end (22) of the metallic part. Therefore, only one end of the metallic part is secured whereas the other end is free to expand. The mechanical stresses applied to the metallic part during the hardening treatment are reduced and the distortion of the metallic part is prevented. Such equipment is well suited to crankshaft hardening treatment.

IPC 8 full level

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CPC (source: EP US)

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